T-SB-0057-13

April 26, 2013



Rear Differential Whine Noise at 50 - 60 MPH

Service

Category Drivetrain

Section

Axle/Differential

Market USA



Applicability

YEAR(S) MODEL(S)		ADDITIONAL INFORMATION	
2005 – 2013	Tacoma	Drive Type(s): 2WD, 4WD Engine(s): 1GR Transmission(s): 5AT VDS(s): JU4GN, JU62N, KU4HN, KU72N, LU42N, LU4EN, MU4FN, MU52N, TU4GN, TU62N, UU42N, UU4EN	

Introduction

Some 2005 – 2013 model year Tacoma vehicles equipped with a 5 speed automatic transmission, may exhibit a whine noise from the rear differential between 50 – 60 mph (80 – 97 km/h). Use the following repair procedure to address this condition.

NOTE

This bulletin does NOT apply to Limited Slip Differential (LSD) or locking type rear differentials.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
410101	R & R Rear Differential	2.4	41110-35A50	91	99

APPLICABLE WARRANTY

- This repair is covered under the Toyota Powertrain Warranty. This warranty is in effect for 60 months or 60,000 miles, whichever occurs first, from the vehicle's in-service date.
- Warranty application is limited to occurrence of the specified condition described in this bulletin.

Parts Information

PREVIOUS PART NUMBER	CURRENT PART NUMBER	PART NAME	QTY 1	
41110-35A50	41110-35D10	Rear Differential Carrier Assembly		
42181-34011 Same Rear Differential Carrier Gaske		Rear Differential Carrier Gasket	1	



Rear Differential Whine Noise at 50 - 60 MPH

Required Tools & Equipment

REQUIRED MATERIAL	QUANTITY
Toyota Genuine Differential Gear Oil, or Equivalent, per Repair Manual	As Needed

REQUIRED EQUIPMENT	SUPPLIER	PART NUMBER	QTY
ChassisEAR™ (or equivalent)	ADE	JSPSM06606 (JS Products)	1

NOTE

- A mechanic's stethoscope or similar tool may be used in place of ChassisEAR™.
- ChassisEAR™ may be ordered by calling Approved Dealer Equipment (ADE) at 1-800-368-6787.

Repair Procedure

1. Confirm the condition.

Is there a whine type noise present between 50 - 60 mph (80 - 97 km/h) with light acceleration or on deceleration?

- · YES Continue to step 2.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 2. Confirm the rear differential fluid level is correct.

Is the fluid level correct?

- YES Continue to step 3.
- NO Check for leaks, adjust fluid level and re-test. If whine noise is still present, proceed to step 3.
- 3. Using ChassisEAR™, confirm the noise is loudest from the rear differential assembly.

Is the noise loudest from the rear differential assembly?

- YES Continue to step 4.
- NO This bulletin does NOT apply. Continue diagnosis using the applicable Repair Manual.
- 4. Replace the rear differential assembly.

Refer to the Technical Information System (TIS), applicable model and model year Repair Manual:

 2005 Tacoma: Drivetrain – Axle/Differential – "Differential Carrier Assy Rear (w/o Diff.lock): Overhaul"

Rear Differential Whine Noise at 50 - 60 MPH

Repair Procedure (Continued)

- 2006 Tacoma: Drivetrain – Axle/Differential – "Differential: Rear Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"
- 2007 Tacoma: Drivetrain – Axle/Differential – "Differential: Rear Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"
- 2008 Tacoma: Drivetrain – Axle/Differential – "Differential: Rear Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"
- 2009 Tacoma: Drivetrain – Axle/Differential – "Differential: Rear Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"
- 2010 Tacoma: Drivetrain – Axle/Differential – "Differential: Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"
- 2011 Tacoma: Drivetrain – Axle/Differential – "Differential: Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"
- 2012 Tacoma: Drivetrain – Axle/Differential – "Differential: Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"
- 2013 Tacoma:
 Drivetrain Axle/Differential "Differential: Differential Carrier Assembly (w/o Differential Lock): Removal / Installation"
- 5. Test drive the vehicle and confirm the repair.